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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,207	02/17/2004	Chia-Chang Lee	YOIP0003USA	2206
27765	7590 07/05/2005		EXAM	IINER
NORTH AMERICA INTERNATIONAL PATENT OFFICE (NAIPC)			PAK, SUNG H	
P.O. BOX 50 MERRIFIEL	u6 LD, VA 22116		ART UNIT	PAPER NUMBER
	,		2874	
			DATE MAILED: 07/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/708,207	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sung H. Pak	2874				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>17 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Steiner et al (US 6,775,460 B2).

Steiner discloses an optical device with all the limitations set forth in the claims, including: a holding apparatus for an optical integration rod ('210' Fig. 5) comprising a holder ('metal conduit'- not shown but described in column 12 lines 5-11), installed outside the optical integration rod, wherein a thermal conductivity material ('212' Fig. 5) is disposed between said holder and said optical integration rod;

wherein said holder is a heat sink substrate (column 12 lines 5-11);

wherein said heat sink substrate is a high heat conduction coefficient material (column 12 lines 5-11);

wherein said holder is a hollow column (i.e. 'tube'- column 12 lines 5-11).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Steiner et al (US 6,775,460 B2) in view of Simon (US 6,807,345 B2).

Steiner discloses an optical device with limitations set forth in the claims as discussed above, except it does not teach the use of fins disposed on the heat sink.

On the other hand, the use of fins on heat sink is well known in the art, for example, as taught by Simon (Fig. 4). Heat sink fins are considered advantageous and desirable in the art because they allow for efficient heat dissipation, yet take up minimal amount of space.

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the device of Steiner to have heat sink fins.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Steiner et al (US 6,775,460 B2).

Steiner discloses an optical device with limitations set forth in the claims as discussed above, except it does not explicitly teach the use of glue filling hole disposed on the holder.

However, the use of glue holes in optical device holder is well known and common in the art. Glue holes are advantageously used in the art because it allows the introduction of glue without disturbing positional configurations of internal optical components within the holder. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the device of Steiner to have glue holes disposed on the holder element.

Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Steiner et al (US 6,775,460 B2) in view of Verdiell (US 6,252,726 B1).

Steiner discloses an optical device with limitations set forth in the claims as discussed above, except it does not teach the use of heat pipe connected to the holder.

However, the use of heat pipes connected to heat sinks for dissipating generated heat is known in the art, for example, as taught by Verdiell ('150' Fig. 1; column 3 lines 12-24). Such arrangement is considered advantageous and desirable in the art because it allows for the heat generated in the optical device to be transferred to a remote location for improved heat

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dissipation. Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the device of Steiner to have heat pipes connected to the

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holder.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sung H. Pak whose telephone number is (571) 272-2353. The examiner can normally be reached on Monday- Friday, 9AM-5PM.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sung H. Pak Patent Examiner

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